eXtensible Imaging Platform (XIP)

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> ⓘ **XIP is supported by the Imaging Knowledge Center at the University of Maryland School of Medicine.**
> For more information on receiving support for this tool, please visit the Imaging Knowledge Center.

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About XIP

The eXtensible Imaging Platform offers a set of tools for rapidly developing medical imaging processing and visualization applications. One of the goals for XIP is to allow cancer researchers to easily create complex data analysis programs (e.g., lesion change detection) targeted at specific investigations. By employing the DICOM WG-23 Application Hosting interfaces, XIP applications can be distributed to a variety of installations, thus providing more consistency in data collection for clinical trials. The XIP tools can also be employed to create other types of applications.

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What's New

Open XIP Libraries and Builder 0.4.0 of the XIP Libraries is now available, both for Linux and Windows, both 32 and 64 bits. Links to all documentation and files, as well as an overview, are available on Washington University in St. Louis School of Medicine's XIP Page.

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At-a-Glance Details

- Current Version Number: 0.3.0
- Release Date of Current Version: June 2010
- Intended Audiences: Developers; Investigators and Researchers
- Primary Workspace: IMAG

- Currently caGrid Enabled: Yes
- caBIG® compatibility Level: Not yet determined

Learn more about compatibility levels

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Technical Information

- Tool Maturity Assessment: Stable Release (Adoption in progress)
- Architecture Level: Other or not applicable
- Installation Level: Advanced; technical team required for installation

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System Requirements

- Advanced OpenGL 2.0 compatible graphics card
- Works on any kind of Intel-compatible hardware
- Disk Space: 1GB
- Others: Java SE 6.0

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Presentations, Demos and Other Materials

None listed at this time.

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Documentation and Training

Access the caBIG® Learning Management System to learn about training programs, register for classes, track progress, and stay informed about training offerings. Explore the catalog to see what is available. You will need to create an account before registering for classes.

Siemens Documentation

- Installation Instructions for the XIP Host™ and Sample XIP Applications
- Programming_Guide Installation Guide for the XIP Libraries™ with the XIP Builder™ Tool
- Tutorials (16 tutorials currently available)

Additional Materials

- XIP Forum
- XIP Slides and Additional Documentation

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XIP Knowledge Base

The Imaging Knowledge Center was launched on February 28, 2011, and we are currently building the knowledge base for XIP. Coming soon will be answers to the most frequently asked questions, tutorials, supporting data, case studies, and scheduled training demonstrations. A list of XIP Citations is provided.

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Installation and Downloads

- The download for the Windows 32 bit installer can be accessed by clicking Windows 32 bit installer. The above installer includes binaries for all components of the XIP Package (XIP Host™, XIP Libraries™, XIP Builder™, the DICOM Application Hosting interface libraries for XIP™, and the XIP™ skeleton application). It also includes the source for everything except the XIP Libraries™ and the XIP Builder™.

- Users interested in only Windows 32 bit binaries for the XIP Libraries™ and the XIP Builder™, without the XIP Host™ and DICOM Application Hosting libraries,can download the installer by clicking Windows 32 bit binaries.

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Forums and Support for XIP

- End User Forums
- Developer Forums
- CBIIT Application Support ncicb@pop.nci.nih.gov

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Submit Defects and Feature Requests on XIP

- Report a defect or request a feature for XIP

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Open Source Development

- The source code for the 0.3.0 XIP Libraries™ is available in a zip file from: ZIP FILE

- The latest source code for the XIP Host™, the DICOM Application Hosting interface libraries

- Source code for the XIP Host(tm), the XIP(tm) implementation of the DICOM Application Hosting standard interfaces, the skeletal XIP(tm) application framework for Java along with several sample applications in a GForge based Subversion repository.

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Grand Alliance Meeting

The Grand Alliance Meeting provided information on the Common Tool Kit group. More information on the Grand Alliance Meeting can be found on the Imaging Workspace wiki.

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